WEST Search History

Hide Items | Restore | Clear | Cancel

DATE: Wednesday, February 16, 2005

Hide?	Set Name	Query	Hit Count
	DB=USPT; PLUR=YES; OP=AND		
☐	L1	premenstrual near2 factor	3
☐	L2	pmf-1 or pmf1	20
☐	L3	lefty-a or leftya	3
☐	L4	(right-left or left-right or leftright or rightleft) near3 (factor or factor-a or factora)	11
☐	L5	L4 not l1 not l3	11
☐	L6	tgfbeta4 or tgf-beta4 or tgf-beta-4	6
☐	L7	transforming near growth near factor near beta near 4	39
☐	L8	transforming near growth near factor near beta-4	0
☐	L9	transforming near growth near factor near beta4	0
☐	L10	tgf-beta near2 (type4 or type-4)	0
☐	L11	tgf-beta	3516
☐	L12	type4 or type-4	112
☐	L13	L12 near4 l11	0
☐	L14	TGF-beta	3516
☐	L15	L14 near2 l11	138
☐	L16	L14 near2 l12	0

END OF SEARCH HISTORY

```
File 155:MEDLINE(R) 1951-2005/Feb W2
       (c) format only 2005 The Dialog Corp.
*File 155: Medline will be reloaded shortly and accession
numbers will change.

      Set  Items  Description
      ---  -----  -----------
?e pmf-1

Ref   Items  Index-term
E1      515  PMF
E2        7  PMF PROTOCOL
E3        0 *PMF-1
E4        1  PMF-100 SOLUTION
E5       11  PMFA
E6        1  PMFABP
E7        1  PMFALPHA1
E8        1  PMFB
E9        2  PMFBH
E10       1  PMFBP1
E11       1  PMFBP1 PROTEIN, MOUSE
E12       1  PMFB1

          Enter P or PAGE for more
?s pmf (2n) 1 (2n) gene?
             515  PMF
         3372533  1
         2357164  GENE?
      S1       2  PMF (2N) 1 (2N) GENE?
?e premenstrual factor

Ref   Items   RT  Index-term
E1        5       PREMENSTRUACNIM
E2     3766       PREMENSTRUAL
E3        0      *PREMENSTRUAL FACTOR
E4     2484    4  PREMENSTRUAL SYNDROME
E5      198       PREMENSTRUAL SYNDROME --BLOOD --BL
E6        3       PREMENSTRUAL SYNDROME --CEREBROSPINAL FLUID --
E7       28       PREMENSTRUAL SYNDROME --CHEMICALLY INDUCED --C
E8       31       PREMENSTRUAL SYNDROME --CLASSIFICATION --CL
E9      232       PREMENSTRUAL SYNDROME --COMPLICATIONS --CO
E10     523       PREMENSTRUAL SYNDROME --DIAGNOSIS --DI
E11      20       PREMENSTRUAL SYNDROME --DIET THERAPY --DH
E12     766       PREMENSTRUAL SYNDROME --DRUG THERAPY --DT

          Enter P or PAGE for more
?s premenstrual (2n) factor?
            3766  PREMENSTRUAL
         2225770  FACTOR?
      S2      56  PREMENSTRUAL (2N) FACTOR?
?s s2 (25n) gene?
              56  S2
         2357164  GENE?
      S3       6  S2 (25N) GENE?
?ds

Set     Items   Description
S1          2   PMF (2N) 1 (2N) GENE?
S2         56   PREMENSTRUAL (2N) FACTOR?
S3          6   S2 (25N) GENE?
?t s1/9/all

 1/9/1
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2005 The Dialog Corp. All rts. reserv.

14423144   PMID: 10419538
```

```
>>>Year ranges not supported in one or more files
Processing
Completed processing all files
              49  S15
        41990598  PY=1997 : PY=2005
     S16      44  S15/1997:2005
? s s15 not s16
              49  S15
              44  S16
     S17       5  S15 NOT S16
? s au=jakowlew ? and py=1988 and chicken?
>>>One or more prefixes are unsupported
>>>  or undefined in one or more files.
             512  AU=JAKOWLEW ?
         3351249  PY=1988
          547866  CHICKEN?
     S18      12  AU=JAKOWLEW ? AND PY=1988 AND CHICKEN?
? ds

Set     Items   Description
S1          4   'TRANSFORMING GROWTH FACTOR BETA4'
S2      23817   E3-E48
S3      19916   TYPE (2N) 4
S4          3   TYPE4
S5        277   S2 AND (S3 OR S4)
S6        192   S2 (10N) (S3 OR S4)
S7        138   S6/1996:2005
S8         54   S6 NOT S7
S9          4   'TGFB4'
S10         4   S9/1997:2005
S11         1   'TGFBETAINF 4'
S12         1   'TGFBETASUPERFAMILY'
S13        26   'TGFBETA4'
S14        21   'TGFB4'
S15        49   S11 OR S12 OR S13 OR S14
S16        44   S15/1997:2005
S17         5   S15 NOT S16
S18        12   AU=JAKOWLEW ? AND PY=1988 AND CHICKEN?
? t s17/6/all
```

```
Ref    Items  Index-term
E1         1  TGFA3
E2         1  TGFA44
E3      1123 *TGFB
E4         1  TGFB BINDING PROTEIN
E5         1  TGFB GENE
E6         1  TGFB MRNA TRANSFORMING GROWTH FACTOR-BETA MESS
E7         1  TGFB PROTEINS
E8         1  TGFB RECEPTORS
E9         1  TGFB TARGET GENES TRANSFORMING GROWTH FACTOR-B
E10        4  TGFB TRANSFORMING GROWTH FACTOR BETA
E11       10  TGFB TRANSFORMING GROWTH FACTOR-BETA
E12        1  TGFB-INDUCED

           Enter P or PAGE for more
? p

Ref    Items  Index-term
E13        1  TGFB-MEDIATED
E14        2  TGFB-RECEPTOR
E15        2  TGFB-RESPONSIVE
E16        1  TGFB-RIII
E17        1  TGFB-R1
E18        1  TGFB-SIGNAL
E19        1  TGFB-TREATED
E20        9  TGFB-1
E21        1  TGFB-1 TRANSFORMING GROWTH FACTOR B-1
E22        1  TGFB-1 TRANSFORMING GROWTH FACTOR-BETA-1
E23        1  TGFB-1 TRANSFORMING GROWTH FACTOR-BETA-1 GENE
E24        3  TGFB-2

           Enter P or PAGE for more
? p

Ref    Items  Index-term
E25        3  TGFB-2R
E26        3  TGFB-3
E27        3  TGFB-3R
E28        1  TGFB/G1
E29        5  TGFBA
E30        2  TGFBATA
E31        1  TGFBATTA1
E32        1  TGFBBA1
E33        1  TGFBBETA
E34        1  TGFBBETA1
E35        1  TGFBBR2
E36        4  TGFBE

           Enter P or PAGE for more
? p

Ref    Items  Index-term
E37        3  TGFBEAT
E38        1  TGFBEATA1
E39        1  TGFBEAT1
E40        3  TGFBEP
E41    14377  TGFBETA
E42        1  TGFBETA ACTIVATED KINASE TAK1 TRANSFORMING GRO
E43        1  TGFBETA BETA RECEPTOR TYPE II
E44        1  TGFBETA EXPRESSION
```

```
E45        2  TGFBETA FAMILY
E46        1  TGFBETA FAMILY SIGNALING
E47        1  TGFBETA GROWTH FACTOR
E48        1  TGFBETA INHIBITOR TUMOR GROWTH FACTOR BETA INH

           Enter P or PAGE for more
? p

Ref    Items  Index-term
E49        1  TGFBETA ISOFORMS
E50        8  TGFBETA RECEPTOR
? p

Ref    Items  Index-term
E1         8  TGFBETA RECEPTOR
E2         1  TGFBETA RECEPTOR I
E3         1  TGFBETA RECEPTOR II
E4        11  TGFBETA RECEPTORS
E5         4  TGFBETA SIGNAL TRANSDUCTION
E6        11  TGFBETA SIGNALING
E7         2  TGFBETA SIGNALING PATHWAY
E8         6  TGFBETA SIGNALLING
E9         1  TGFBETA SIGNALS
E10        1  TGFBETA STEROID RECEPTORS
E11        6  TGFBETA SUPERFAMILY
E12        1  TGFBETA TRANSFORMING GROWTH FACTOR BETA

           Enter P or PAGE for more
? p

Ref    Items  Index-term
E13        1  TGFBETA TRANSFORMING GROWTH FACTOR BETA TRANSF
E14        2  TGFBETA TYPE I RECEPTOR
E15        3  TGFBETA TYPE II RECEPTOR
E16        1  TGFBETA TYPE II RECEPTOR PROMOTER
E17        1  TGFBETA TYPE II RECEPTOR SIGNALING
E18        1  TGFBETA VARIANTS
E19        2  TGFBETA(TRANSFORMING GROWTH FACTOR BETA)
E20        1  TGFBETA)
E21        1  TGFBETA- 1
E22        2  TGFBETA-DEPENDENT
E23        1  TGFBETA-IIR
E24        1  TGFBETA-INDEPENDENT

           Enter P or PAGE for more
? p

Ref    Items  Index-term
E25        2  TGFBETA-INDUCED
E26        2  TGFBETA-INDUCIBLE GENE H3(BETAIG-H3)
E27        1  TGFBETA-PATHWAY
E28        1  TGFBETA-RECEPTOR INTERACTING PROTEIN-1
E29        3  TGFBETA-RII
E30        1  TGFBETA-RII CELL LINE (HOMINIDAE)
E31        1  TGFBETA-SIGNALING
E32        1  TGFBETA-SIGNALLING
E33        2  TGFBETA-SUPERFAMILY
E34        1  TGFBETA-TREATED
E35        6  TGFBETA-1
E36        1  TGFBETA-1 LASER MICRODISSECTION
```

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          Enter P or PAGE for more
? p

Ref    Items  Index-term
E37        1  TGFBETA-1 TRANSFORMING GROWTH FACTOR BETA-1
E38        2  TGFBETA-2
E39        1  TGFBETA-3
E40        2  TGFBETA, TRANSFORMING GROWTH FACTOR BETA
E41        1  TGFBETA, TRANSFORMING GROWTH FACTOR-BETA
E42        2  TGFBETAA
E43        1  TGFBETAAND
E44        3  TGFBETABETA1
E45        2  TGFBETAB2
E46        1  TGFBETACALCITROIL
E47       11  TGFBETAC10
E48       11  TGFBETAC25

          Enter P or PAGE for more
? p

Ref    Items  Index-term
E49        1  TGFBETAFNSHOWED
E50        1  TGFBETAFNSKELETAL
? p

Ref    Items  Index-term
E1         1  TGFBETAFNSKELETAL
E2         1  TGFBETAFNTREATMENT
E3        30  TGFBETAI
E4         1  TGFBETAIGH3
E5        20  TGFBETAII
E6         1  TGFBETAIII
E7        38  TGFBETAIIR
E8         1  TGFBETAIN
E9       430  TGFBETAINF
E10       12  TGFBETAINF 1
E11        1  TGFBETAINF 3
E12        1  TGFBETAINF 4

          Enter P or PAGE for more
? s e12
     S11       1  'TGFBETAINF 4'
? p

Ref    Items  Index-term
E13        7  TGFBETAIR
E14        1  TGFBETAISOFORMS
E15       15  TGFBETAL
E16        1  TGFBETAMU
E17        1  TGFBETAOVER
E18        3  TGFBETAP
E19        2  TGFBETAPRII
E20      112  TGFBETAR
E21        1  TGFBETAR II (A)10
E22        1  TGFBETAR II (GT)3
E23        7  TGFBETARE
E24        1  TGFBETARECEPTER

          Enter P or PAGE for more
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? p

Ref    Items  Index-term
E25        2  TGFBETARECEPTOR
E26        1  TGFBETARECEPTORS
E27        1  TGFBETARES
E28      114  TGFBETARI
E29      588  TGFBETARII
E30        1  TGFBETARII FRAMESHIFT MUTATION
E31        5  TGFBETARIIDELTAKD
E32       16  TGFBETARIII
E33        7  TGFBETARS
E34       12  TGFBETAR1
E35        4  TGFBETAR11
E36       29  TGFBETAR2

          Enter P or PAGE for more
? p

Ref    Items  Index-term
E37       10  TGFBETAR3
E38      431  TGFBETAS
E39        1  TGFBETASIGNALING
E40        1  TGFBETASL
E41        3  TGFBETASR
E42        8  TGFBETASRII
E43      179  TGFBETASUB1
E44        1  TGFBETASUB1STIMULATED
E45       39  TGFBETASUB2
E46        1  TGFBETASUB2TGFBETASUB2
E47       15  TGFBETASUB3
E48        4  TGFBETASUP

          Enter P or PAGE for more
? p

Ref    Items  Index-term
E49        1  TGFBETASUPERFAMILY
E50        1  TGFBETASUPPRESSED
? s e49
     S12       1  'TGFBETASUPERFAMILY'
? p

Ref    Items  Index-term
E1         1  TGFBETASUPPRESSED
E2         3  TGFBETASUP1
E3         4  TGFBETAS1
E4         1  TGFBETATGFBETA
E5         1  TGFBETATO
E6      7165  TGFBETA1
E7         1  TGFBETA1 - TRANSFORMING GROWTH FACTOR BETA
E8         1  TGFBETA1 DIFFERENTIATION
E9         1  TGFBETA1 MRNA
E10        1  TGFBETA1 OVEREXPRESSION
E11        1  TGFBETA1 RECEPTORS
E12        1  TGFBETA1-ACTIVATED

          Enter P or PAGE for more
? p
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```
Ref    Items  Index-term
E13        1  TGFBETA1ALPHAMP
E14        1  TGFBETA1ANGIOTENSINII
E15        1  TGFBETA1AVAILABILITY
E16        1  TGFBETA1CDNA
E17        1  TGFBETA1DURING
E18        1  TGFBETA1GENE
E19        1  TGFBETA1KIDNEY
E20        1  TGFBETA1L
E21        2  TGFBETA1LAP
E22        4  TGFBETA1MRNA
E23        2  TGFBETA1POSITIVE
E24        1  TGFBETA1PRODUCING

           Enter P or PAGE for more
? p

Ref    Items  Index-term
E25       11  TGFBETA1R
E26        1  TGFBETA1REQUIRE
E27        7  TGFBETA1RI
E28        6  TGFBETA1RII
E29        6  TGFBETA1SUP
E30        2  TGFBETA1SUPS223
E31        2  TGFBETA1SUPWT
E32        1  TGFBETA1SUP32
E33        1  TGFBETA1TRANSGENE
E34        1  TGFBETA1WERE
E35     1357  TGFBETA2
E36        1  TGFBETA2, IL-1

           Enter P or PAGE for more
? p

Ref    Items  Index-term
E37        1  TGFBETA2HUMAN
E38        5  TGFBETA2R
E39       14  TGFBETA2SUP
E40      896  TGFBETA3
E41        1  TGFBETA3-ELISA
E42        1  TGFBETA3R
E43        1  TGFBETA3RII
E44       10  TGFBETA3SUP
E45       26  TGFBETA4
E46       14  TGFBETA5
E47        2  TGFBETE
E48        1  TGFBETGA1

           Enter P or PAGE for more
? ps e45
>>>Unrecognizable Command
? s e45
     S13      26  'TGFBETA4'
? p

Ref    Items  Index-term
E49        1  TGFBGR
E50      322  TGFBI
? p
```

```
Ref    Items  Index-term
E1       322  TGFBI
E2         1  TGFBI (BETA IG-H3) GENE
E3         1  TGFBI (BIGH3) GENE
E4         4  TGFBI BIGH3 GENE
E5        15  TGFBI GENE
E6         1  TGFBI TRANSFORMING GROWTH FACTOR-BETA-1
E7         1  TGFBI(BIGH3) GENE
E8         1  TGFBI-INDUCED
E9         2  TGFBIGENE
E10        9  TGFBII
E11        1  TGFBIII
E12        6  TGFBIIIR

           Enter P or PAGE for more
? p

Ref    Items  Index-term
E13       44  TGFBIIR
E14        1  TGFBIIR GENE
E15        1  TGFBINDUCES
E16        7  TGFBINF
E17        1  TGFBIN3
E18       18  TGFBIP
E19        7  TGFBKM2
E20        2  TGFBKM2SUP129
E21        2  TGFBKM2129
E22       10  TGFBL
E23        6  TGFBM1
E24        5  TGFBM3

           Enter P or PAGE for more
? p

Ref    Items  Index-term
E25       25  TGFBP
E26        1  TGFBP-3
E27        2  TGFBPS
E28        1  TGFBP1
E29        1  TGFBP3
E30        1  TGFBP4
E31        1  TGFBP5
E32       19  TGFBR
E33        1  TGFBR-SMAD
E34        1  TGFBR-SMAD SUPERFAMILY
E35        9  TGFBRAP1
E36        9  TGFBRAP1 PROTEIN, HUMAN

           Enter P or PAGE for more
? p

Ref    Items  Index-term
E37       18  TGFBRI
E38      105  TGFBRII
E39        1  TGFBRII GENE
E40        1  TGFBRII GENE TRANSFORMING GROWTH FACTOR-BETA R
E41        3  TGFBRL
E42        2  TGFBRLOXP
E43        6  TGFBRR1
E44        6  TGFBRR2
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E45        1  TGFBRS
E46        2  TGFBRTA
E47      127  TGFBR1
E48        1  TGFBR1 GENE

          Enter P or PAGE for more
? p

Ref    Items  Index-term
E49        1  TGFBR1 KINASE
E50        1  TGFBR1 TRANSFORMING GROWTH FACTOR, BETA RECEPT
? p

Ref    Items  Index-term
E1         1  TGFBR1 TRANSFORMING GROWTH FACTOR, BETA RECEPT
E2         2  TGFBR1-ASTERISK-6A
E3         1  TGFBR1-6A ALLELE
E4         1  TGFBR16A
E5       383  TGFBR2
E6         8  TGFBR2 GENE
E7         1  TGFBR2 GENE TYPE II TRANSFORMING GROWTH FACTOR
E8         6  TGFBR2 PROTEIN, HUMAN
E9         2  TGFBR2-RESTORED
E10        1  TGFBR2FLOXE2
E11        2  TGFBR2FLX
E12        4  TGFBR2FSPKO

          Enter P or PAGE for more
? p

Ref    Items  Index-term
E13        1  TGFBR2HEPKO
E14        1  TGFBR2L
E15        2  TGFBR2LOXP
E16        1  TGFBR2MGKO
E17        2  TGFBR2SUP
E18        2  TGFBR2SUPFLX
E19        2  TGFBR2SUPFSPKO
E20        2  TGFBR2SUPLOXP
E21       61  TGFBR3
E22       30  TGFBS
E23        1  TGFBSTA
E24        1  TGFBSUB3

          Enter P or PAGE for more
? p

Ref    Items  Index-term
E25        2  TGFBSUP
E26        1  TGFBV1
E27     1024  TGFB1
E28        7  TGFB1 GENE
E29        1  TGFB1 GENE HUMAN TRANSFORMING GROWTH FACTOR-B1
E30        1  TGFB1 KERATO-EPITHELIN TRANSFORMING GROWTH FAC
E31        1  TGFB1 KNOCKOUT
E32        2  TGFB1 MRNA TRANSFORMING GROWTH FACTOR-BETA-1 M
E33        1  TGFB1 RECEPTOR I
E34        1  TGFB1 RECEPTOR II
E35        1  TGFB1 TRANSFORMING GROWTH FACTOR BETA 1
E36        1  TGFB1 TRANSFORMING GROWTH FACTOR BETA-1
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          Enter P or PAGE for more

? p

Ref    Items  Index-term
E37        1  TGFB1 TRANSFORMING GROWTH FACTOR-BETA 1
E38        3  TGFB1 TRANSFORMING GROWTH FACTOR-BETA-1
E39        1  TGFB1-INDUCED
E40        1  TGFB1-NEGATIVE-NEGATIVE MOUSE
E41        1  TGFB1AND
E42        1  TGFB1IL
E43        1  TGFB1IR
E44       48  TGFB1I1
E45       31  TGFB1I1 PROTEIN, HUMAN
E46       24  TGFB1I1 PROTEIN, MOUSE
E47        7  TGFB1I1 PROTEIN, RAT
E48       29  TGFB1I4

          Enter P or PAGE for more
? p

Ref    Items  Index-term
E49       20  TGFB1I4 PROTEIN, HUMAN
E50       12  TGFB1I4 PROTEIN, MOUSE
? p

Ref    Items  Index-term
E1        12  TGFB1I4 PROTEIN, MOUSE
E2         3  TGFB1I4 PROTEIN, RAT
E3         1  TGFB1LL
E4         2  TGFB1RII
E5        10  TGFB1SUP
E6         1  TGFB10
E7         1  TGFB111
E8       687  TGFB2
E9         1  TGFB2 GENE
E10        1  TGFB2,3
E11        1  TGFB2R
E12        4  TGFB2SUP

          Enter P or PAGE for more
? p

Ref    Items  Index-term
E13        1  TGFB25
E14      261  TGFB3
E15        3  TGFB3 GENE
E16        1  TGFB3 GENE TRANSFORMING GROWTH FACTOR BETA 3 G
E17        1  TGFB3 KNOCKOUT
E18        1  TGFB3 MRNA TRANSFORMING GROWTH FACTOR-BETA-3 M
E19        1  TGFB3 TRANSFORMING GROWTH FACTOR B3
E20        1  TGFB3 TRANSFORMING GROWTH FACTOR-BETA-3
E21        1  TGFB3 TUMOR GROWTH FACTOR-BETA-3
E22        1  TGFB3/MSX1 MARKERS
E23        1  TGFB3VARIANT
E24       21  TGFB4

          Enter P or PAGE for more
? s e24
```

```
     S14       21  'TGFB4'
? p

Ref    Items  Index-term
E25        1  TGFB47
E26        1  TGFB5
E27        8  TGFC
E28        1  TGFCARS
E29        1  TGFCDIA
E30        1  TGFCYS
E31        1  TGFCYSSUP33SER
E32        1  TGFCYS33
E33        2  TGFCYS33SER
E34       11  TGFD
E35        7  TGFDE
E36        1  TGFDELTA

           Enter P or PAGE for more
? p

Ref    Items  Index-term
E37        3  TGFDIAM
E38       66  TGFE
E39        1  TGFEALPHA
E40        2  TGFEBETA1
E41        3  TGFEM
E42        3  TGFET
E43        1  TGFETA1
E44        1  TGFETS
E45        1  TGFE1
E46       21  TGFF
E47        1  TGFFALPHAASE
E48        1  TGFFAR

           Enter P or PAGE for more
? p

Ref    Items  Index-term
E49        1  TGFFAR-II
E50        3  TGFFBETA
? p

Ref    Items  Index-term
E1         3  TGFFBETA
E2         1  TGFFBETA1
E3         1  TGFFB1
E4         1  TGFFI
E5         2  TGFFL
E6         7  TGFF3
E7        11  TGFG
E8         4  TGFGAMMA
E9         6  TGFGAMMA2
E10        1  TGFGBETA1
E11        5  TGFGF
E12        6  TGFGF2

           Enter P or PAGE for more
? p

Ref    Items  Index-term
```

```
E13        1  TGFH
E14        1  TGFHI
E15        1  TGFH9011
E16       19  TGFI
E17        3  TGFIBETA
E18        1  TGFIBETA SUPERFAMILY
E19        1  TGFIGB
E20        1  TGFII
E21        2  TGFIIB
E22        1  TGFIIB-MEDIATED
E23        1  TGFIIH
E24        1  TGFIIR

          Enter P or PAGE for more
? ds

Set     Items   Description
S1          4   'TRANSFORMING GROWTH FACTOR BETA4'
S2      23817   E3-E48
S3      19916   TYPE (2N) 4
S4          3   TYPE4
S5        277   S2 AND (S3 OR S4)
S6        192   S2 (10N) (S3 OR S4)
S7        138   S6/1996:2005
S8         54   S6 NOT S7
S9          4   'TGFB4'
S10         4   S9/1997:2005
S11         1   'TGFBETAINF 4'
S12         1   'TGFBETASUPERFAMILY'
S13        26   'TGFBETA4'
S14        21   'TGFB4'
? s s11 or s12 or s13 or s14
                1  S11
                1  S12
               26  S13
               21  S14
     S15       49  S11 OR S12 OR S13 OR S14
? ds

Set     Items   Description
S1          4   'TRANSFORMING GROWTH FACTOR BETA4'
S2      23817   E3-E48
S3      19916   TYPE (2N) 4
S4          3   TYPE4
S5        277   S2 AND (S3 OR S4)
S6        192   S2 (10N) (S3 OR S4)
S7        138   S6/1996:2005
S8         54   S6 NOT S7
S9          4   'TGFB4'
S10         4   S9/1997:2005
S11         1   'TGFBETAINF 4'
S12         1   'TGFBETASUPERFAMILY'
S13        26   'TGFBETA4'
S14        21   'TGFB4'
S15        49   S11 OR S12 OR S13 OR S14
? s s15/1997:2005
Processing
Processed  10 of  26 files ...
>>>One or more prefixes are unsupported
>>>  or undefined in one or more files.
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NiceProt View of Swiss-Prot: P09531

[Entry info] [Name and origin] [References] [Comments] [Cross-references] [Keywords] [Features] [Sequence] [Tools]

Note: most headings are clickable, even if they don't appear as links. They link to the user manual or other documents.

Entry information

Entry name	**TGFB1_CHICK**
Primary accession number	**P09531**
Secondary accession numbers	None
Entered in Swiss-Prot in	Release 10, March 1989
Sequence was last modified in	Release 34, October 1996
Annotations were last modified in	Release 46, February 2005

Name and origin of the protein

Protein name	**Transforming growth factor beta 1 [Precursor] [Fragment]**
Synonyms	**TGF-beta 1** **TGF-beta 4**
Gene name	**Name: TGFB1**
From	Gallus gallus (Chicken) [TaxID: 9031]
Taxonomy	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae; Gallus.

References

[1] NUCLEOTIDE SEQUENCE.
STRAIN=White leghorn;
MEDLINE=89112198;PubMed=2464131 [NCBI, ExPASy, EBI, Israel, Japan]
Jakowlew S.B., Dillard P.J., Sporn M.B., Roberts A.B.;
"Complementary deoxyribonucleic acid cloning of a messenger ribonucleic acid encoding transforming growth factor beta 4 from chicken embryo chondrocytes.";
Mol. Endocrinol. 2:1186-1195(1988).

[2] SEQUENCE REVISION.
DOI=10.1210/me.6.6.989;MEDLINE=92357039;PubMed=1353860 [NCBI, ExPASy, EBI, Israel, Japan]
Burt D.W., Jakowlew S.B.;
"Correction: a new interpretation of a chicken transforming growth factor-beta 4 complementary DNA.";

Mol. Endocrinol. 6:989-992(1992).

Comments

- ***FUNCTION***: TGF-beta is a multifunctional peptide that control proliferation, differentiation, and other functions in many cell types. Many cells synthesize TGF-beta and essentially all of them have specific receptors for this peptide. TGF-beta regulates the actions of many other peptide growth factors and determines a positive or negative direction of their effects. Play an important role in bone remodelling. It is a potent stimulator of osteoblastic bone formation, causing chemotaxis, proliferation and differentiation in committed osteoblasts *(By similarity)*.
- ***SUBUNIT***: The inactive form consists of a TGF-beta 1 homodimer non-covalently linked to a latency-associated peptide (LAP) homodimer. The inactive complex can contain a latent TGF-beta binding protein. The active form is a homodimer of mature TGF-beta 1; disulfide-linked *(By similarity)*.
- ***SUBCELLULAR LOCATION***: Secreted.
- ***PTM***: Glycosylated. The precursor is cleaved into mature TGF-beta 1 and LAP *(By similarity)*.
- ***SIMILARITY***: Belongs to the TGF-beta family.

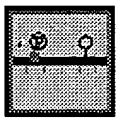
Copyright

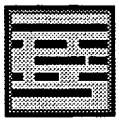
Cross-references

EMBL	M31160; AAB05637.1; -.[EMBL / GenBank / DDBJ] [CoDingSequence]
PIR	A41918; A41918.
HSSP	P01137; 1KLA. [HSSP ENTRY / PDB]
InterPro	IPR003911; TGF_TGFb. IPR001839; TGFb. IPR001111; TGFb_N. Graphical view of domain structure.
Pfam	PF00019; TGF_beta; 1. PF00688; TGFb_propeptide; 1. Pfam graphical view of domain structure.
PRINTS	PR01423; TGFBETA.
ProDom	PD000357; TGFb; 1. [Domain structure / List of seq. sharing at least 1 domain]
SMART	SM00204; TGFB; 1.
PROSITE	PS00250; TGF_BETA_1; 1.
HOVERGEN	[Family / Alignment / Tree]
BLOCKS	P09531.
ProtoNet	P09531.
ProtoMap	P09531.
PRESAGE	P09531.
DIP	P09531.
ModBase	P09531.
SMR	P09531; 9903F3479C8552E5.
SWISS-2DPAGE	Get region on 2D PAGE.
UniRef	View cluster of proteins with at least 50% / 90% identity.

Keywords

Glycoprotein; **Growth factor**; **Mitogen**; **Signal**.

 Feature table viewer

 Feature aligner

Key	From	To	Length	Description
NON_TER	1	1		
SIGNAL	<1	1	>1	*Potential.*
PROPEP	2	259	258	*Potential.*
CHAIN	260	373	114	Transforming growth factor beta 1.
DISULFID	266	277		*By similarity.*
DISULFID	276	339		*By similarity.*
DISULFID	305	370		*By similarity.*
DISULFID	309	372		*By similarity.*
DISULFID	338	338		Interchain *(By similarity).*
CARBOHYD	54	54		N-linked (GlcNAc...) *(By similarity).*
CARBOHYD	109	109		N-linked (GlcNAc...) *(By similarity).*
CARBOHYD	153	153		N-linked (GlcNAc...) *(By similarity).*
SITE	223	225	3	Cell attachment site *(Potential).*

Sequence information

Length: **373 AA** [This is the length of the partial sequence of the unprocessed precursor]

Molecular weight: **42635 Da** [This is the MW of the partial sequence of the unprocessed precursor]

CRC64: **9903F3479C8552E5** [This is a checksum on the sequence]

```
        10         20         30         40         50         60
ALSTCQRLDL EAAKKKRIEA VRGQILSKLR LTAPPPASET PPRPLPDDVR ALYNSTQELL

        70         80         90        100        110        120
KQRARLRPPP DGPDEYWAKE LRRIPMETTW DGAMEHWQPQ SHSIFFVFNV SRARRGGRPT

       130        140        150        160        170        180
LLHRAELRML RQKAAADSAG TEQRLELYQG YGNASWRYLH GRSVRATADD EWLSFDVTDA

       190        200        210        220        230        240
VHQWLSGSEL LGVFKLSVHC PCEMGPGHAE EMRISIEGFE QQRGDMQSIA KKHRRVPYVL

       250        260        270        280        290        300
AMALPAERAN ELHSARRRRD LDTDYCFGPG TDEKNCCVRP LYIDFRKDLQ WKWIHEPKGY

       310        320        330        340        350        360
MANFCMGPCP YIWSADTQYT KVLALYNQHN PGASAAPCCV PQTLDPLPII YYVGRNVRVE

       370
QLSNMVVRAC KCS
```

P09531 in FASTA format

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View entry in raw text format (no links)
Report form for errors/updates in this Swiss-Prot entry

BLAST BLAST submission on ExPASy/SIB or at NCBI (USA)

 Sequence analysis tools: ProtParam, ProtScale, Compute pI/Mw, PeptideMass, PeptideCutter, Dotlet (Java)

ScanProsite, MotifScan

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Hosted by NCSC US	Mirror sites:	Australia	Bolivia	Brazil new	Canada	China	Korea	Switzerland	Taiwan

of infertile patients, the ebaf mRNA was detectable in the endometria of women on the post-ovulatory days 6-10 (Figure 2). The mRNA detected was primarily the 2.1 kb species. Additional smaller bands were also detected in a smaller number of patients (Figure 2). A high incidence of dysregulated ebaf mRNA expression, however, was identified in women with endometriosis and with unexplained infertility (Table 3, Figure 2).

In contrast, endometrium obtained a normal fertile woman (egg donor) during the implantation window, exhibited a low level of ebaf mRNA expression (Figure 2, lane 21).

To localize ebaf protein in endometrial samples and samples of bodily fluids for similar purposes, the invention provides methods whereby polyclonal antisera is raised against ebaf or a synthetic peptide provided by the invention, CASDGALVPRRLQHRP-amide (SEQ ID NO:3). The antisera preferably are pooled and affinity purified on a column with the peptide bound. Similarly monoclonal antibodies could be used as is well known in the art.

Various forms of ebaf protein in endometrial samples, endometrial fluid and serum during the menstrual cycle can be detected. The size of the ebaf precursor protein is 41 kD. However, ebaf protein contains three RXXR cleavage sites which conform to the minimal requirement for efficient processing by Furin, a ubiquitous prototypical mammalian kexin/subtilisin-like endoproteinase involved in the proteolytic processing of a variety of proteins including those within the ebaf super family. If all these sites are cleaved, then products of the molecular weights of 32.3, 25.7 and 12 kD proteins are expected to be secreted (Table 2). To detect such proteins in endometrial samples, fluids and serum the CASDGALVPRRLQHRP-amide antisera is used. In endometrial samples the antisera detects ebaf bands at 55/60, 41, 31, 25 kD by Western blot

throughout the menstrual cycle days 3, 11, 18 and 25 and the first day of menstrual bleeding (D1); on the first day of menstrual bleeding, the saliva as was as urine was also obtained, the extracted proteins were subjected to protein gel electrophoresis; the proteins on the gel were transferred to a Nitrocellulose membrane and stained with the antibody to *ebaf*; the 31 kD of the ebaf protein is found on the first day of menstruation in the blood, saliva and urine.

DETAILED DESCRIPTION OF THE INVENTION

According to the present invention, methods and reagents for the diagnosis of female infertility, prognostic indicators for female infertility, compounds for the treatment of female infertility, and compounds and methods for contraception are provided. The methods and compounds are based on the role of *ebaf* in endometrial tissue. Provided are methods for diagnosing endometrial receptivity and bleeding functions by screening a biological sample such as an endometrial tissue sample, or bodily fluid for the presence of *ebaf*. A contraceptive compound containing an effective amount of *ebaf* and a pharmaceutically acceptable carrier is also provided. Additionally, a diagnostic kit for timing conception is provided, containing reagents for screening a sample for the presence of *ebaf*. Also provided is a method of treating endometrial irregularities by down-regulating the expression of Endometrial Bleeding Associated Factor (*ebaf*), previously known as Premenstrual Factor expressed by the pmf-1 gene. *Ebaf* also referred to at one time as TGF-β4 due to the similarity in sequence however it has subsequently been distinguished from TGF-β4.

NiceProt View of Swiss-Prot: O19011

Note: most headings are clickable, even if they don't appear as links. They link to the user manual or other documents.

Entry information

Entry name	**TGFB1_HORSE**
Primary accession number	**O19011**
Secondary accession numbers	None
Entered in Swiss-Prot in	Release 36, July 1998
Sequence was last modified in	Release 36, July 1998
Annotations were last modified in	Release 46, February 2005

Name and origin of the protein

Protein name	**Transforming growth factor beta 1 [Precursor]**
Synonym	**TGF-beta 1**
Gene name	**Name: TGFB1**
From	Equus caballus (Horse) [TaxID: 9796]
Taxonomy	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Perissodactyla; Equidae; Equus.

References

[1] NUCLEOTIDE SEQUENCE.
TISSUE=Lymph node;
MEDLINE=98185507;PubMed=9524819 [NCBI, ExPASy, EBI, Israel, Japan]
Penha-Goncalves M.N., Onions D.E., Nicolson L.;
"Cloning and sequencing of equine transforming growth factor-beta 1 (TGF beta-1) cDNA.";
DNA Seq. 7:375-378(1997).

Comments

- ***FUNCTION***: TGF-beta is a multifunctional peptide that control proliferation, differentiation, and other functions in many cell types. Many cells synthesize TGF-beta and essentially all of them have specific receptors for this peptide. TGF-beta regulates the actions of many other peptide growth factors and determines positive or negative direction of their effects. Play an important role in bone remodelling. It is a potent stimulator of osteoblastic bone formation, causing chemotaxis, proliferation and differentiation in committed osteoblasts *(By similarity)*.
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binding protein. The active form is a homodimer of mature TGF-beta 1; disulfide-linked *(By similarity)*.

- ***SUBCELLULAR LOCATION***: Secreted.
- ***PTM***: Glycosylated. The precursor is cleaved into mature TGF-beta 1 and LAP *(By similarity)*.
- ***SIMILARITY***: Belongs to the TGF-beta family.

Copyright

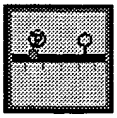
Cross-references

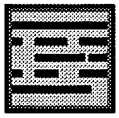
EMBL	X99438; CAA67801.1; -.[EMBL / GenBank / DDBJ] [CoDingSequence]
HSSP	P01137; 1KLA. [HSSP ENTRY / PDB]
InterPro	IPR002400; GF_cysknot. IPR003911; TGF_TGFb. IPR001839; TGFb. IPR001111; TGFb_N. Graphical view of domain structure.
Pfam	PF00019; TGF_beta; 1. PF00688; TGFb_propeptide; 1. Pfam graphical view of domain structure.
PRINTS	PR00438; GFCYSKNOT. PR01423; TGFBETA.
ProDom	PD000357; TGFb; 1. [Domain structure / List of seq. sharing at least 1 domain]
SMART	SM00204; TGFB; 1.
PROSITE	PS00250; TGF_BETA_1; 1.
HOVERGEN	[Family / Alignment / Tree]
BLOCKS	O19011.
ProtoNet	O19011.
ProtoMap	O19011.
PRESAGE	O19011.
DIP	O19011.
ModBase	O19011.
SMR	O19011; A86D715F44549691.
SWISS-2DPAGE	Get region on 2D PAGE.
UniRef	View cluster of proteins with at least 50% / 90% identity.

Keywords

Glycoprotein; **Growth factor**; **Mitogen**; **Signal**.

Features

 Feature table viewer

 Feature aligner

Key	From	To	Length	Description
SIGNAL	1	29	29	*By similarity.*
PROPEP	30	278	249	Latency-associated peptide *(By similarity)*.
CHAIN	279	390	112	Transforming growth factor beta 1.

DISULFID	285	294	*By similarity.*
DISULFID	293	356	*By similarity.*
DISULFID	322	387	*By similarity.*
DISULFID	326	389	*By similarity.*
DISULFID	355	355	Interchain *(By similarity).*
CARBOHYD	82	82	N-linked (GlcNAc...) *(By similarity).*
CARBOHYD	136	136	N-linked (GlcNAc...) *(By similarity).*
CARBOHYD	176	176	N-linked (GlcNAc...) *(By similarity).*

Sequence information

Length: **390 AA** [This is the length of the unprocessed precursor]

Molecular weight: **43975 Da** [This is the MW of the unprocessed precursor]

CRC64: **A86D715F44549691** [This is a checksum on the sequence]

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       130        140        150        160        170        180
YKTVETGSHS IYMFFNTSEL RAAVPDPMLL SRAELRLLRL KLSVEQHVEL YQKYSNNSWR

       190        200        210        220        230        240
YLSNRLLTPS DSPEWLSFDV TGVVRQWLSQ GGAMEGFRLS AHCSCDSKDN TLRVGINGFS

       250        260        270        280        290        300
SSRRGDLATI DGMNRPFLLL MATPLERAQQ LHSSRHRRAL DTNYCFSSTE KNCCVRQLYI

       310        320        330        340        350        360
DFRKDLGWKW IHEPKGYHAN FCLGPCPYIW SLDTQYSKVL ALYNQHNPGA SAAPCCVPQV

       370        380        390
LEPLPIVYYV GRKPKVEQLS NMIVRSCKCS
```

conserved sequence

O19011 in FASTA format

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Report form for errors/updates in this Swiss-Prot entry

BLAST submission on ExPASy/SIB or at NCBI (USA)

Sequence analysis tools: ProtParam, ProtScale, Compute pI/Mw, PeptideMass, PeptideCutter, Dotlet (Java)

ScanProsite, MotifScan

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